CSE 486/586 Distributed Systems Wrap-up

Steve Ko
Computer Sciences and Engineering
University at Buffalo

CSE 486/586 Administrivia

• PA4 deadline: 5/10
• Final exam: 5/17 @ 11:45 am – 2:45 pm in Knox 109
  – Includes everything
  – True/false questions & multi-choice questions
  – Cheat sheet allowed (1-page, letter-sized, front-and-back)
  – No restroom use
• Survey & course evaluation
  – Survey: https://forms.gle/ez1wHN2G8S6fV3e9
  – Course evaluation: https://www.smartevals.com/login.aspx?c=puffalo...
• Incentive when both have 80% or more participation
  – Currently about 50% for both
• No recitation this week; replaced with office hours

Building a Distributed System

• “The number of people who know how to build really solid distributed systems…is about ten”
  – Scott Shenker, Professor at UC Berkeley
• Are you confident now?
• What were the most interesting topic to you?

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• Important things about the final week
  – PA4 scores will hopefully be posted by Wednesday.
  – Re-grading will be done on Thursday & Friday.
• Final grading
  – I’m shooting for Tuesday (5/21) for posting, Wednesday (5/22) for reviewing, and Thursday (5/23) for finalizing.
  – This will change if there’s any delay in grading at the scoring center.

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• Distinguished speaker talk 2–3pm today in SU 330
• Cynthia Rudin from Duke University
• Alumnus of UB
• AI/ML
• No office hours from me today (sorry). Email me if you want.

The Way I See It

• We’ve learned some of the building blocks & fundamental results…
  – Networking basics, failure detection, logical time, reliable multicast, mutual exclusion, leader election, transactions, concurrency control, replication, gossipping, Paxos, BFT, …
• …and how real systems get built using those…
  – P2P, DHT, Dynamo, …
• …and also got some experience in building/using the fundamental building blocks…
  – Ordered multicast for messaging, a DHT, and a replicated key-value storage
Acknowledgements

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